

Participant Questionnaire

Participant number: 8

Date: 7/3/23

Location: Brescia, IT

HRC Study / Algorithms tested: HAMP, STAP-PPF

Study Conducted by: Jared Flowers

Participant link lengths/dimensions: (meters, "spine" is pelvis to shoulder midpoint, "shoulders" is shoulder to shoulder)

Spine	<u> </u>
Neck	<u> </u>
Shoulders	<u> </u>

Left Upper Arm	<u>.37</u>
Left Forearm	<u>.30</u>

Right Upper Arm	<u>.34</u>
Right Forearm	<u>.28</u>

Participant joint diameter: (meters)

Left Elbow	<u>.105</u>
Left Wrist	<u>.068</u>

Right Elbow	<u>.10</u>
Right Wrist	<u>.07</u>

Questions:

- A. How safe did you feel? (0 is not safe at all, 5 is neutral, 10 is very safe)
- B. Do you think the robot hindered your motions during the task? (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)
- C. Did the robot perform logical motions? (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)
- D. What is your overall satisfaction with the HRC task? (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

Participant number: 8 Date:

For Task 1 (engine parts): (circle your answer to each question)

Task 1, Method 1:											3
Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)											
0	1	2	3	4	5	6	7	8	9	(10)	
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)											
0	1	2	3	4	5	6	7	8	9	(10)	
Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)											
0	1	2	3	4	5	6	7	8	9	(10)	
Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)											
0	1	2	3	4	5	6	7	8	9	(10)	

Task 1, Method 2:											2
Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)											
0	1	2	3	4	5	6	7	8	(9)	10	
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)											
0	1	2	3	4	5	6	7	8	(9)	10	
Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)											
0	1	2	3	4	5	6	7	8	9	(10)	
Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)											
0	1	2	3	4	5	6	7	8	(9)	10	

Task 1, Method 3:											1
Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)											
0	1	2	3	4	5	6	7	8	9	(10)	
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)											
0	1	2	3	4	5	6	7	8	(9)	10	
Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)											
0	1	2	3	4	5	6	7	8	(9)	10	
Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)											
0	1	2	3	4	5	6	7	8	9	(10)	

Comments: *Experience: 8*

For Task 2 (Sharework parts: metal tabs, cylinders, pallets): (circle your answer to each question)

Task 2, Method 1:										3
Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)										
0	1	2	3	4	5	6	7	8	(9)	10
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)										
0	1	2	3	4	5	6	7	8	(9)	10
Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)										
0	1	2	3	4	5	6	7	8	(9)	10
Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)										
0	1	2	3	4	5	6	7	8	(9)	10

Task 2, Method 2:										2
Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)										
0	1	2	3	4	5	6	7	8	(9)	10
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)										
0	1	2	3	4	5	6	7	8	9	(10)
Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)										
0	1	2	3	4	5	6	7	8	9	(10)
Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)										
0	1	2	3	4	5	6	7	8	9	(10)

Task 2, Method 3:										1
Question A: (0 is not safe at all, 5 is neutral, 10 is very safe)										
0	1	2	3	4	5	6	7	8	9	(10)
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)										
0	1	2	3	4	5	6	7	8	9	(10)
Question C: (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)										
0	1	2	3	4	5	6	7	8	9	(10)
Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)										
0	1	2	3	4	5	6	7	8	9	(10)

Comments: T2-m4: A 10 B 10 C 10 D 10
T2-m5: A 10 B 10 C 10 D 10